

Datasheet: AHP425

BATCH NUMBER 162870

Description:	RABBIT ANTI SHEEP INTERLEUKIN-8
Specificity:	IL-8
Other names:	CXCL8
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/500
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Sheep
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Bovine, Goat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Serum - liquid
Antiserum Preparation	Antisera to ovine IL-8 were raised by repeated immunisation of rabbits with highly purified antigen.

Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Immunogen	Recombinant ovine IL-8.
External Database Links	<p>UniProt: P36925 Related reagents</p> <p>Entrez Gene: 443418 IL8 Related reagents</p>
Synonyms	CXCL8
RRID	AB_322153
Specificity	<p>Rabbit anti Sheep Interleukin-8 antibody recognises ovine interleukin-8, also known as IL-8, C-X-C motif chemokine 8 or Chemokine (C-X-C motif) ligand 8. Interleukin-8 is a 79 amino acid ~11kDa secreted cytokine chemotactic for neutrophils, basophils and T-cells but not monocytes.</p> <p>No cross-reactivity is seen with ovine IL-1 beta, IL-6, MCP or TNF alpha.</p>
ELISA	<p>The antibody may be used in a sandwich ELISA as a detection reagent for ovine IL-8, in combination with MCA1660 as capture antibody.</p> <p>N.B. It is recommended that AHP425 and any detection antibody are diluted in 10% normal mouse serum prior to use in ELISA.</p>
References	<ol style="list-style-type: none"> Herndon, C.N. <i>et al.</i> (2010) Differential expression of interleukin-8 by polymorphonuclear leukocytes of two closely related species, <i>Ovis canadensis</i> and <i>Ovis aries</i>, in response to <i>Mannheimia haemolytica</i> infection. Infect Immun. 78: 3578-84. Caswell, J.L. <i>et al.</i> (1998) Expression of the neutrophil chemoattractant interleukin-8 in the lesions of bovine pneumonic pasteurellosis. Vet Pathol. 35 (2): 124-31. Bonnefont, C.M. <i>et al.</i> (2012) Genetic susceptibility to <i>S. aureus</i> mastitis in sheep: differential expression of mammary epithelial cells in response to live bacteria or supernatant. Physiol Genomics. 44 (7): 403-16. Shashikant, B.N. <i>et al.</i> (2005) Dose response to rhCC10-augmented surfactant therapy in a lamb model of infant respiratory distress syndrome: physiological, inflammatory, and kinetic profiles. J Appl Physiol. 99: 2204-11. Doull, L. <i>et al.</i> (2015) Late production of CXCL8 in ruminant oro-nasal turbinate cells in response to <i>Chlamydia abortus</i> infection. Vet Immunol Immunopathol. 168 (1-2): 97-102. Stinson LF <i>et al.</i> (2014) Effects of cytokine-suppressive anti-inflammatory drugs on inflammatory activation in <i>ex vivo</i> human and ovine fetal membranes. Reproduction. 147 (3): 313-20. Cronin, J.G. <i>et al.</i> (2015) Enzyme linked immunosorbent assay for quantification of bovine interleukin-8 to study infection and immunity in the female genital tract. Am J Reprod Immunol. 73 (4): 372-82.

8. Tahoun, A. *et al.* (2015) Functional analysis of bovine TLR5 and association with IgA responses of cattle following systemic immunisation with H7 flagella. [Vet Res. 46: 9.](#)
9. Santillo, A. *et al.* (2022) Feeding tannins to dairy cows in different seasons improves the oxidative status of blood plasma and the antioxidant capacity of cheese. [J Dairy Sci. 105 \(11\): 8609-20.](#)

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20362 available at: https://www.bio-rad-antibodies.com/SDS/AHP42520362
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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'M389231:210806'

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